PATENT ABSTRACTS OF JAPAN

(11)Publication number:

2000-159697

(43)Date of publication of application: 13.06.2000

(51)Int.Cl.

C07C 13/62 CO7C 25/22 CO7C 43/21 CO7C 43/225 CO9K 11/06 H05B 33/14

(21)Application number: 10-342955

02.12.1998

(71)Applicant: MITSUI CHEMICALS INC

(72)Inventor:

NAKATSUKA MASAKATSU SHIMAMURA TAKEHIKO

(54) HYDROCARBON COMPOUND AND ORGANIC ELECTROLUMINESCENT ELEMENT

(22)Date of filing:

PROBLEM TO BE SOLVED: To obtain the subject element excellent in luminous efficiency and capable of emitting light at a high luminance by sandwiching a layer containing a specific compound between a pair

SOLUTION: This element is obtained by sandwiching a layer containing 12,12'-biacenaphto[1,2-b]triphenylene derivative between a pair of electrodes. A new compound represented by the formula (X1 to X30 are each H, a halogen or the like) such as 9, 9',16,16'tetraphenyl-12,12'-biacenaphtho[1,2-b] triphenylene is preferred as the 12,12'-biacenaphtho[1,2-b]triphenylene derivative. The compound represented by the formula is prepared by reacting an acenaphtho [1,2-b]triphenylene derivative, e.g. 12-bromo-9,16diphenylacenaphtho[1,2-b]triphenylene in the presence of nickel chloride, triphenylphosphine and zinc. When the above derivative is used as a luminous component in a luminous layer, an organic electroluminescent element excellent in durability and emitting blue light at a high luminance is preferably obtained.

